

2014-2015 Columbus & Franklin County Seasonal Influenza Activity Weekly Summary (Week 12, Mar. 22nd, 2015– Mar. 28th, 2015)



Highlights

- In week 12 of 2015, the majority of flu activity indicators decreased compared to last week. We are still seeing a fair amount of confirmed influenza-associated hospitalizations for this time of year.
- Geographic activity and local intensity designation (Click here for definitions) = REGIONAL, MODERATE
- Local medical facility labs reported 1,056 tests run with 137 (13.0%) positive results for week 12 of 2015.
- The percentage of ED visits for influenza-like-illness (ILI) increased slightly, while respiratory symptom visits were stable compared to week 11. The percentages of ED visits for ILI and respiratory symptoms are slightly above their respective weekly baseline averages.
- In week 12 of 2015, local over-the-counter medication sales generally increased (increase in cough and cold, electrolyte, chest rub, pediatric anti-fever, adult anti-fever, and throat lozenge sales; slight decrease in thermometer sales) compared to last week.
- Nationally in week 12, influenza activity continued to decrease, but remained elevated. Please <u>visit the CDC website for specific information</u> (National data is usually updated on Friday of each week).

Local Flu Activity Dashboard (All data are preliminary and may change as updated reports are received.)

Pediatric Influenza Associated Death Reported by Year (based on date of death) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Current W	eek Intensity	Oct Nov Dec			Jan	Feb	Mar	Apr	May
Indicators			,	40 41 42 43 44 45 46 47 48	8 49 50 51 52	53 1 2 3 4	5 6 7 8	9 10 11 12	13 14 15 16	17 18 19 20
Medical Facility Lab Data 35-12 13.0% Pos. 11% 2 ▼	intensity Minimal Low		· ·				2			
### Themmeter ### 35-12 3.3 per 1,000 visits 0% 1 1 1 1 1 1 1 1 1	Indicators									
athenaHealth ⁴ Network PCP III Data Solution Solution	Medical Facility Lab Data	35-12	13.0% Pos.	-11%		2 ▼	35 - 2014		nek Number	20 - 2015
EMS Cold/Flu Symptom Runs 35-12 24 runs -52.0% 2		35-12		0%		1 •	35 - 2014			
School Absences 37-12 9.1% Absent -4.6% 1 ▼		35-12	24 runs	-52.0%		2 ▼	\sim		>	~~
Trends: Web Search Data ⁵ Hospital ED Data ⁵ : Complaint Defined as ILI 35-12 ED Visits	School Absences	37-12	9.1% Absent	-4.6%		1 ▼	35 - 2014	We	eek Number	20 - 2015
Hospital ED Data ⁶ : Complaint Defined as ILI 35-12 22.2% of All ED Visits 4.4% 1		35-12		-8.3%		2 ▼	35 - 2014	, we	ask Number	20 - 2015
Categorized as Respiratory 35-12	Hospital ED Data ⁶ :						00 2014		↑ :	20 2010
Categorized as Respiratory 35-12 ED Visits -0.4% 2 € Pediatric Urgent Care Data ⁶ : Complaint Defined as ILI 35-12 49.7% of All PUC Visits -9.8% 1 ▼ 1 ▼ 35-2014 Week Number 20-2015 Categorized as Respiratory 35-12 48.9% of All PUC Visits -2.8% 2 ▼ 2 ▼ Week Number 20-2015 Medication Data: OTC Cough & Cold Sales 35-12 14,399 Total Sales 7.7% 3 ▲ 35-2014 Week Number 20-2015 Confirmed Influenza Associated Hospitalizations 7 35-12 23 Admitted (939 Since W.k. 35, 2014) -18% 2 ▼ 2 ▼ Week Number 20-2015 Reportable Conditions (Cumulative Numbers as of Apr. 2, 2015, 4:00 PM) 2010 2011 2012 2013 2014 2015 YTD Pediatric Influenza Associated Hospitalizations (IAH) Reported by Year (based on date of death) 0 <t< td=""><td>Complaint Defined as ILI</td><td>35-12</td><td></td><td>4.4</td><td>%</td><td>1 🛦</td><td>35 - 2014</td><td>We</td><td>eek Number</td><td>20 - 2015</td></t<>	Complaint Defined as ILI	35-12		4.4	%	1 🛦	35 - 2014	We	eek Number	20 - 2015
Pediatric Urgent Care Data ⁶ : Complaint Defined as ILI 35-12 49.7% of All PUC Visits -9.8%	Categorized as Respiratory	35-12		-0.4%		2 •	35 - 2014	W	ek Number	20 - 2015
Categorized as Respiratory 35-12 PUC Visits -9.8% 2	Pediatric Urgent Care Data ⁶ :								<u> </u>	
Medication Data:	Complaint Defined as ILI	35-12		-9.8%		1 ▼	35 - 2014	We	eek Number	20 - 2015
Medication Data: OTC Cough & Cold Sales 35-12 14,399 Total Sales 7.7% 3 ▲ 1 ▼ Week Number 20-2015 Thermometer 35-12 75 Total Sales -3.8% 1 ▼ 2 ▼ Week Number 20-2015 Confirmed Influenza Associated Hospitalizations 7 35-12 (939 Since Wk. 35, 2014) -18% 2 ▼ 2 ▼ Week Number 20-2015 Reportable Conditions (Cumulative Numbers as of Apr. 2, 2015, 4:00 PM) 2010 2011 2012 2013 2014 2015 YTD Pediatric Influenza Associated Death Reported by Year (based on date of death) 0 <	Categorized as Respiratory	35-12		-2.8%		2 ▼	35 - 2014		ack Number	20 - 2015
Sales 7.7% Thermometer 35-12 75 Total Sales -3.8% Confirmed Influenza Associated Hospitalizations (IAH) Reported by Year (based on date of death) Influenza Associated Hospitalizations (IAH) Reported by Admission Year (14	Medication Data:									
Confirmed Influenza Associated Hospitalizations Reportable Conditions (Cumulative Numbers as of Apr. 2, 2015, 4:00 PM) Pediatric Influenza Associated Death Reported by Year (based on date of death) Influenza Associated Hospitalizations (IAH) Reported by Admission Year 135-2014 Week Number 20-2015 Week Number 20-2015 2014 2012 2014 2015 YTD 2015 2016 2017 2017 2018 2018 2018 2019 2010 2010 2011 2012 2013 2014 2015 YTD 2015 2016 2017 2017 2018 2018 2018 2018 2019 2010 2010 2011 2012 2013 2014 2015 YTD 2015 YTD 2016 2017 2017 2018	OTC Cough & Cold Sales	35-12		7.7	%	3 🛦	35 - 2014	We	eek Number	20 - 2015
Confirmed Influenza Associated Hospitalizations ⁷ 35-12 (939 Since (939 S	Thermometer	35-12	75 Total Sales	-3.8%		1 ▼	35 - 2014	We	eek Number	20 - 2015
Pediatric Influenza Associated Death Reported by Year (based on date of death) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Associated Hospitalizations ⁷		(939 Since wk. 35, 2014)			2 ▼	35 - 2014			20 - 2015
Influenza Associated Hospitalizations (IAH) Reported by Admission Year ⁷ 35 266 394 300 951 415 IAH comparison by Season (October - May or Weeks 35 - 20) 2009-10 2010-11 2011-12 2012-13 2013-14 2014-15										2015 YTD
IAH comparison by Season (October - May or Weeks 35 - 20) 2009-10 2010-11 2011-12 2012-13 2013-14 2014-15										
Current season (2014-15) is from week 35 through 12. 458 286 95 512 486 939		omparison by Śea	son (October -	May or Weeks 35 - 20)						_

¹Interpret with caution. Indicators with small numbers subject to large weekly percentage fluctuations.

 $^{^2}$ Number of weeks "▲" = Increase (>2%), "▼" = Decrease (>2%), "●" = Stable (-2% to +2%).

³Black line is current years data. Based on data availability, red line is historical average (excluding pandemic year).

⁴Data Source: athenaHealth, Inc. and their analytics and research team athenaResearch (www.athenahealth.com). Rate of ILI visits to Franklin County, OH, athenaHealth network's primary care practices/physicians using claims data.

⁵Data Source: Google Flu Trends (www.google.org/flutrends), City = Columbus, OH. See website for additional details.

⁶Franklin County, OH residents only (based on zipcode).

⁷Confirmed cases only. Based on jurisdiction equal to Franklin County or City of Columbus and admission date available in ODRS.

CDC 122-Cities Mortality Reporting System: Pneumonia and Influenza (P&I) Mortality

In week 12 of 2015, 4.1% of all Columbus deaths were attributed to pneumonia and influenza. Nationally, 6.9% of deaths reported were attributed to pneumonia and influenza in week 12. This national percentage is below the national epidemic threshold of 7.1% for week 12.

Influenza Morbidity and Influenza-Like Illness (ILI) Reports

In week 12, the preliminary local influenza-like-Illness (ILI) visit rate to athenaHealth providers (3.3 per 1,000 visits) was stable compared to the previous week and is slightly above the baseline average for the week (Figure 1). The week 12 percentage of Emergency Department (ED) visits for ILI symptoms was slightly higher than the previous week (Figure 3) and is slightly above the historic baseline for the week. Pediatric urgent care visits for ILI symptoms decreased compared to the previous week and is similar to the historic baseline for the week.

Nationally, during week 12 of 2015, 2.0% of patient visits reported through the US Outpatient Influenza-like Illness Surveillance Network (ILINet), were due to influenza-like illness (ILI). The percentage is at the national baseline of 2.0%.

Laboratory Surveillance

During week 12 of 2015, reporting Franklin County sentinel medical facility laboratories tested 1,056 specimens, with 137 (13.0%) positive (Figure 4). The total number of tests done by local reporting labs from week 35 of 2014 through week 12 of 2015 is 39,817 with 6,400 (16.1%) positives (5,194 type A, 1,178 type B, 24 both A and B, 4 type unknown).

Nationally in week 12 of 2015, WHO and NREVSS laboratories reported 12,014 specimens tested for influenza viruses, 1,300 (10.8%) of which were positive (visit the CDC website for more info). The last 3 weeks available national breakdown by type and subtype from the CDC is shown in Table 1 below:

Table 1: U.S. Virologic Surveillance (WHO and NREVSS participating labs)

Week	A Total	A (H1)	A 2009 H1N1	A (H3)	A (H3N2v)	A (unable to sub-type)	A (Subtyping not performed)	B Total	Total # Tested	% Positive
10	707 (32.5%)	0 (0%)	5 (0.7%)	321 (45.4%)	0 (0%)	0 (0%)	381 (53.9%)	1471 (67.5%)	18139	12
11	455 (25.8%)	0 (0%)	1 (0.2%)	177 (38.9%)	0 (0%)	0 (0%)	277 (60.9%)	1306 (74.2%)	16138	10.91
12	257 (19.8%)	0 (0%)	3 (1.2%)	99 (38.5%)	0 (0%)	0 (0%)	155 (60.3%)	1043 (80.2%)	12014	10.82

ODH lab results for Ohio cases that are PCR positive for seasonal influenza during the 2014-15 season. Positive results: (2) A/pdmH1N1; (1008) A/H3N2; (38) Influenza B (through 03/28/15).

ED and Pediatric Urgent Care Respiratory Visits

In the 12th week of 2015, the percentage of all ED visits categorized as *respiratory* was stable compared to the percentage seen the previous week and is slightly above its historic baseline for the week (Figure 5). The percentage of Pediatric urgent care visits for respiratory symptoms decreased slightly compared to the previous week, and is slightly higher than its historic baseline for the week.

Over-the-Counter (OTC) Medication Sales

In week 12 of 2015, the majority of local over-the-counter medication sales increased (increase in cough and cold, electrolyte, chest rub, pediatric anti-fever, adult anti-fever, and throat lozenge sales; slight decrease in thermometer sales) compared to last week.

Additional Influenza Activity Web Links:

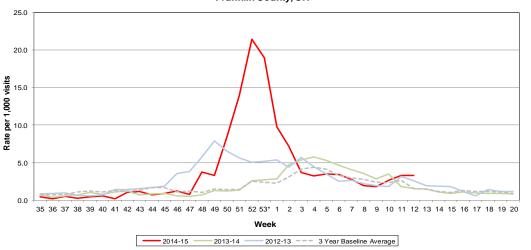
Ohio Seasonal Flu Surveillance: http://www.odh.ohio.gov/features/odhfeatures/seasflu/ohfluactivity.aspx

CDC National Seasonal Flu Surveillance Reports: http://www.cdc.gov/flu/weekly/

CDC International Flu Activity Map: http://www.cdc.gov/flu/international/activity.htm

World Health Organization Situation Updates: http://www.who.int/influenza/surveillance monitoring/en/

Figure 1: athenahealth Network Primary Care Physician Influenza-Like-Illness Visit Rate[†], Franklin County, OH



†Source: Claims data from athenahealth, Inc. and their analytics and research team, athenaResearch (www.athenahealth.com/blog/category/analytics-research) Note: athenaHealth claims data are subject to filing and processing time lags. Historical data are updated when they are recieved.

Figure 2: Percentage of Local and National ILI Outpatient CDC Sentinel Health Care Provider Site visits, 2014-15

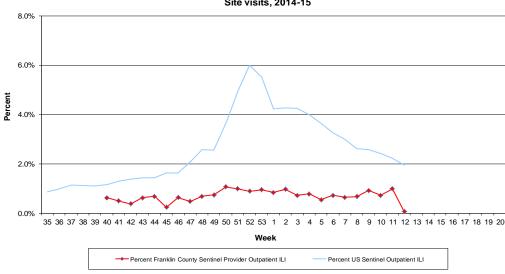


Figure 3: Franklin County Resident ILI Defined** ED and Pediatric Urgent Care Visits, 2014-15, Franklin County, OH

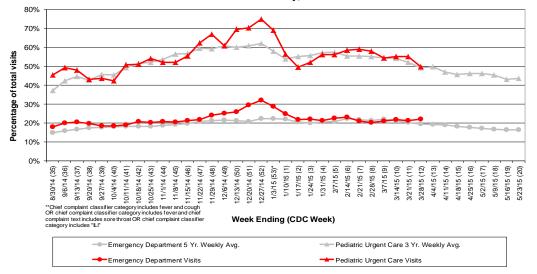
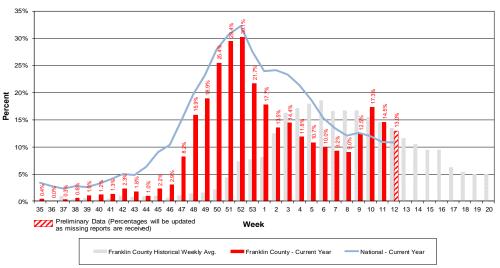


Figure 4: Percentage of Local Reporting and National Laboratory Positive Influenza Tests by Week, 2014-15



^{*}Note: Based on CDC MMWR Weeks, there are 53 surveillance weeks in 2014. Baseline and previous year's week 53 data are based on the average of week 52 and week 1 numbers.

Figure 5: Franklin County Resident Respiratory ED and Pediatric Urgent Care Visits, 2014-15, Franklin County, OH

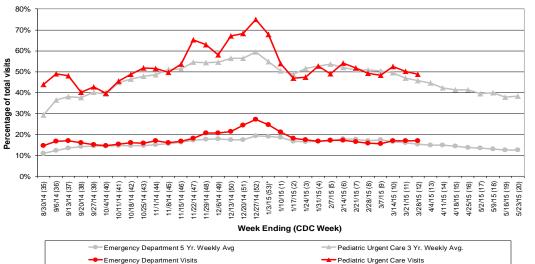


Figure 6: Selected Number of Over-the-Counter Medication Sales, 2014-15, Franklin County, OH

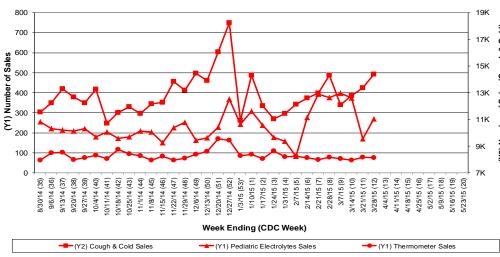
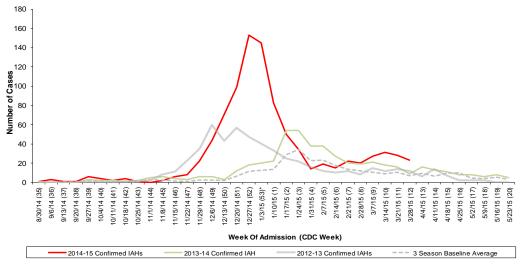
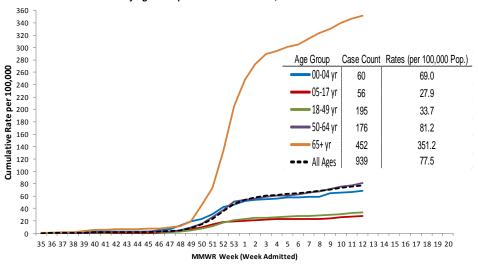


Figure 7: Franklin County Confirmed Influenza Associated Hospitalizations by Hospital Admission Week (As of 4:00 PM, 4/2/2015)



Franklin County, OH, Confirmed Influenza Hospitalization Cumulative Rates (per 100,000) by Age-Group and Admission Week, 2014-2015 Season



^{*}Note: Based on CDC MMWR Weeks, there are 53 surveillance weeks in 2014. Baseline and previous year's week 53 data are based on the average of week 52 and week 1 numbers.